

Supporting Continuous Media Applications In A Micro-Kernel Environment (1994) [\(Make Corrections\)](#) [\(4 citations\)](#)

G. Coulson, G.S. Blair, P. Robin, D. Shepherd



[Home/Search](#) [Bookmark](#) [Context](#) [Related](#)

View or download:

comp.lancs.ac.uk/pub/m...MPG9416.ps.Z
confman.unik.no/~paalh...MPG9416.ps.Z
Cached: [PS.gz](#) [PS](#) [PDF](#) [Image](#) [Update](#) [Help](#)

From: comp.lancs.ac.uk...abstracts_1994
[\(more\)](#)

From: confman.unik.no/~paalh...artikler
[\(Enter author homepages\)](#)

[\(Enter summary\)](#)

Rate this article: 1 2 3 4 5 (best)
[Comment on this article](#)

Abstract: Currently, popular operating systems are unable to support the end-to-end real-time requirements of distributed continuous media. Furthermore, the integration of continuous media communications software into such systems poses significant challenges. This paper describes a design for distributed multimedia support in the Chorus micro-kernel operating system environment which provides the necessary soft real-time support while simultaneously running conventional applications. Our approach is to...
[\(Update\)](#)

Context of citations to this paper: [More](#)

...constraints, and provides dynamic feedback to applications to allow them to adapt to the current load. The Lancaster QoS Architecture [1] provides extensions to existing micro kernel environments for the support of continuous media. The QoS Broker model [6] addresses also the...

.... It also has synchronisation primitives based on event counters and sequencers which incorporate the notion of deadline inheritance [Coulson,94b] whereby a worker thread carrying out a task on behalf of a calling thread inherits the deadline of the caller. Full details...

Cited by: [More](#)

Operating System Support for Multimedia Systems - Plagemann, Goebel, Vorsen.. (1999) [\(Correct\)](#)

A Quality of Service Architecture - Campbell (1996) [\(Correct\)](#)

On Satisfying Timing and Resource Constraints in Distributed.. - Costas Mourlas [\(Correct\)](#)

Similar documents (at the sentence level):

32.8%: Extending The Chorus Micro-Kernel To Support Continuous Media.. - Geoff Coulson (1993) [\(Correct\)](#)

Active bibliography (related documents): [More](#) [All](#)

1.4: Supporting Continuous Media Applications In A.. - Coulson, Blair.. (1994) [\(Correct\)](#)

0.3: System Support For Multimedia Applications: An Assessment .. - Blair, Coulson, Davies [\(Correct\)](#)

0.2: Implementing a QoS Controlled ATM Based Communications System .. - Philippe Robin (1994) [\(Correct\)](#)

Similar documents based on text: [More](#) [All](#)

0.3: CHORUS Bibliography - Bayard-Richard (1995) [\(Correct\)](#)

0.3: Evolution of the CHORUS Open Microkernel Architecture: The.. - Michel Gien (1995) [\(Correct\)](#)

0.3: The OSI 95 Transport Service and the New Environment.. - Campbell, Hutchison.. [\(Correct\)](#)

Related documents from co-citation: [More](#) [All](#)

4: Scheduling and IPC mechanisms for continuous media - Govindan, Anderson - 1991

3: Architectural Considerations for a New Generation of Protocols (context) - Clark, Tennenhouse - 1990

3: A Continuous Media Data Transport Service and Protocol for Real-Time Communicati.. - Wolfinger, Moran - 1991

BibTeX entry: [\(Update\)](#)

Coulson, G., G.S. Blair, P. Robin, and D. Shepherd, "Supporting Continuous Media Applications in a Micro-Kernel Environment." in Architecture and Protocols for High-Speed Networks, Editor: Otto Spaniol, Kluwer Academic Publishers, 1994. <http://citeseer.ist.psu.edu/article/coulson94supporting.html> [More](#)

@misc{ coulson94supporting,

```
author = "G. Coulson and G. Blair and P. Robin and D. Shepherd",
title = "Supporting Continuous Media Applications in a Micro-Kernel Environment",
text = "Coulson, G., G.S. Blair, P. Robin, and D. Shepherd, Supporting Continuous
Media Applications in a Micro-Kernel Environment. in Architecture and Protocols
for High-Speed Networks, Editor: Otto Spaniol, Kluwer Academic Publishers,
1994.",
year = "1994",
url = "citeseer.ist.psu.edu/article/coulson94supporting.html" }
```

Citations (may not include all citations):

- 1352 Scheduling Algorithms for Multiprogramming in a Hard Real-ti.. (context) - Liu, Layland - 1973
- 402 Mach: A New Kernel Foundation for UNIX Development (context) - Accetta, Baron et al. - 1986
- 283 Scheduler Activations: Effective Kernel Support for the User.. - Anderson, Bershad et al. - 1991
- 196 Real-time Mach: Towards a Predictable Real-time System - Tokuda, Nakajima et al. - 1990
- 112 First class user-level threads - Marsh, Scott et al. - 1991
- 105 Layered Multiplexing Considered Harmful (context) - Tennenhouse - 1990
- 97 Implementing Network Protocols at User Level - Thekkath, Nguyen et al. - 1993
- 97 Scheduling and IPC Mechanisms for Continuous Media - Govindan, Anderson - 1991
- 87 NETBLT: A High Throughput Transport Protocol (context) - Clark, Lambert et al. - 1987
- 80 Integrated Quality of Service for Multimedia Communications - Campbell, Coulson et al. - 1992
- 75 ARTS: A Distributed Real-time Kernel (context) - Tokuda, Mercer - 1989
- 45 A Continuous Media Transport and Orchestration Service - Campbell, Coulson et al. - 1992
- 39 Continuous Media Communication with Dynamic QOS Control Usin.. (context) - Tokuda, Tobe et al. - 1992
- 37 Supporting the Real-time Requirements of Continuous Media in.. - Coulson, Blair et al. - 1994
- 20 Protocol Support for Distributed Multimedia Applications (context) - Shepherd, Coulson et al. - 1991
- 17 CHORUS, A New Technology for Building UNIX Systems (context) - Herrmann, Armand et al. - 1988
- 14 Implementing a QoS Controlled ATM Based Communications Syste.. - Robin, Coulson et al. - 1994
- 9 O System for Mach 3.0 (context) - Forin, Golub et al. - 1990
- 7 A Retrospective and Evaluation of the Amoeba Distributed Ope.. (context) - Tanenbaum, van Renesse et al. - 1988
- 6 Synchronisation with Eventcounts and Sequences (context) - Reed, Kanodia - 1979
- 6 Experiences with the Heidelberg Multimedia Communication Sys.. (context) - Cramer, Farber et al. - 1992
- 5 Toolkit Support for Multiuser Audio/Video Applications (context) - Anderson, Chan - 1991
- 3 The LANC - Bringing ATM to the workstation (context) - Scott, Shepherd et al. - 1993

Documents on the same site

(http://www.comp.lancs.ac.uk/computing/research/mpg/abstracts_1994.html): **More**
 Supporting Collaborative Applications In A Heterogeneous Mobile .. - Davies, al. (1995) ([Correct](#))
 Supporting Adaptive Services in a Heterogeneous Mobile.. - Davies, Blair.. ([Correct](#))
 Services to Support Distributed Applications in a Mobile.. - Nigel Davies (1994) ([Correct](#))

[Online articles have much greater impact](#) [More about CiteSeer](#) [Add search form to your site](#) [Submit documents](#) [Feedback](#)

CiteSeer - Copyright [NEC](#) and [IST](#)

BEST AVAILABLE COPY